

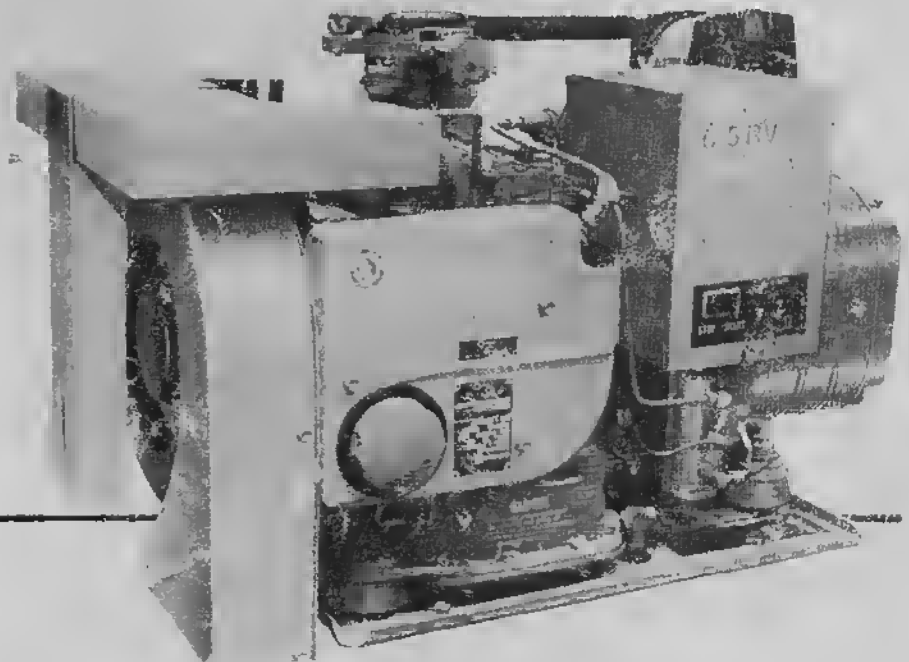
Onan

Parts Manual

6.5

NH-RV

GenSet



940-0222
4-81 (SPEC J-P)
Replaces
10-79 (Spec J-N)

GENERAL INFORMATION

INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

The image shows a rectangular nameplate with the Onan logo at the top. Below the logo, there are two rectangular boxes. The first box contains the handwritten text "65NH3CR-1600 4P" and is labeled "MODEL AND SPEC NO." below it. The second box contains the handwritten text "CR33661837" and is labeled "SERIAL NO." to its left. The nameplate has two circular mounting holes at the top corners. A small "M-1149" label is visible at the bottom right of the nameplate.

For handy reference, insert "YOUR" nameplate information in the spaces above.

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

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940-0222
NH PARTS CATALOG (RV)

INTRODUCTION

This Catalog applies to the Standard NH Recreational Vehicle Generator Set. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the *Model* and *Spec No.* from the nameplate, select parts from this Catalog that apply to your set. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left sides are determined by *facing* the engine end (front) of the set.

GENERATOR SET DATA TABLE

MODEL AND SPEC NO.	TYPE	WATTS	VOLTS	HERTZ	WIRE	PHASE
5.0 NH-53CR/*	Remote	5000	120/240	50	**	Single
5.5 NH-53CR/*	Remote	5500	120/240	50	**	Single
6.5 NH-3CR/*	Remote	6500	120/240	60	**	Single

* - The Specification letter advances (A to B to C, etc.) with manufacturing changes.

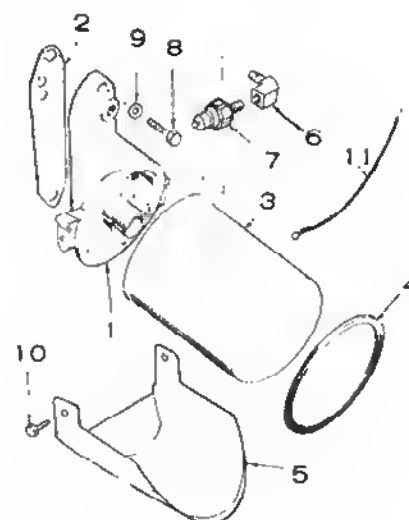
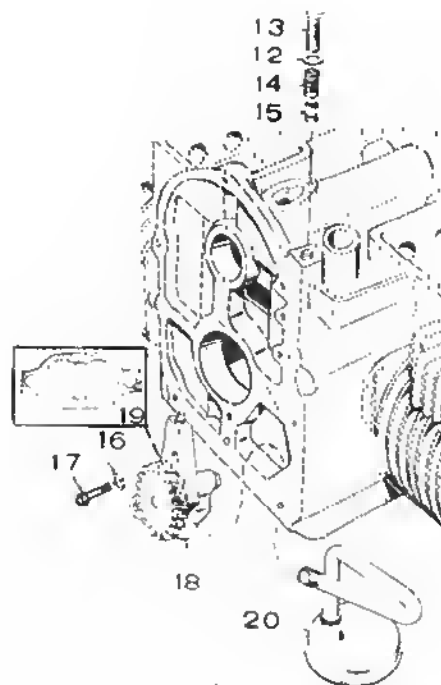
** - Set is reconnectable for 120 volt, 2 wire; 240 volt, 2 wire; or 120/240 volt, 3 wire service.

NOTE: The letter R in the Model and Spec denotes Electric Start with Start-Stop at both the Set and the Remote Control.

STANDARD ENGINE PARTS SECTION

This section contains the engine parts used on standard engines listed in the Engine Data table.

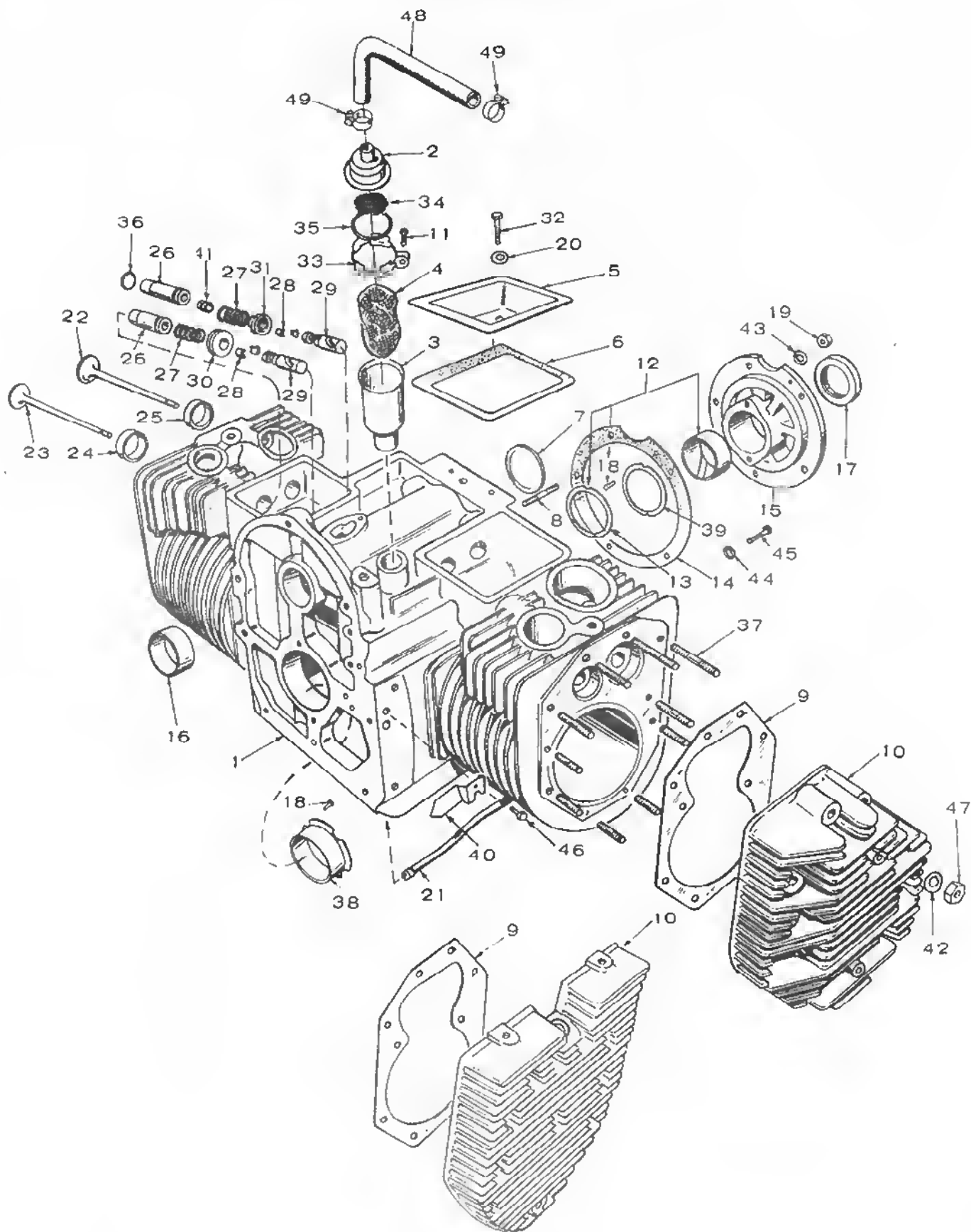
OIL SYSTEM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	122-0320	1	Adapter, Oil Filter
2	122-0321	1	Gasket, Oil Filter Adapter Mounting
3	122-0323	1	Filter, Oil - Spin-on
4	122-0347	1	Seal, Air- Oil Filter
5	122-0360	1	Drain, Oil Filter
6	502-0053	1	Elbow, Street - 45°
7	SWITCH, LOW OIL PRESSURE		
	309-0237	1	Spec J
	309-0322	1	Begin Spec K
8	800-0028	2	Screw, Cap - Hex Head (5/16- 18 x 1")
9	526-0065	2	Washer, Flat - Copper (21/64" ID x 9/16" OD x 1/16")
10	815-0194	2	Screw, Tapping - Hex Head (#10-32 x 3/8")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	LEAD. ELECTRICAL - LOW OIL PRESSURE SWITCH		
	336-2379	1	Spec J
	336-3377	1	Begin Spec K
12	526-0066	1	Washer, Flat - Copper (25/64" ID x 9/16" OD x 1/16")
13	801-0050	1	Screw, Cap - Hex Head (3/8-24 x 1")
14	120-0140	1	Spring, Oil By-Pass Valve
15	120-0398	1	Valve, Oil By-Pass
16	850-0040	2	Washer, Lock - Spring (1/4")
17	800-0007	2	Screw, Cap - Hex Head (1/4-20 x 1")
18	120-0491	1	Pump, Oil (Components Not Sold Separately)
19	120-0161	1	Kit, Gasket - Oil Pump
20	CUP, OIL PUMP INTAKE - (Includes Screw Pipe and Cup)		
	120-0400	1	Spec J and K
	120-0413	1	Begin Spec M

CYLINDER BLOCK



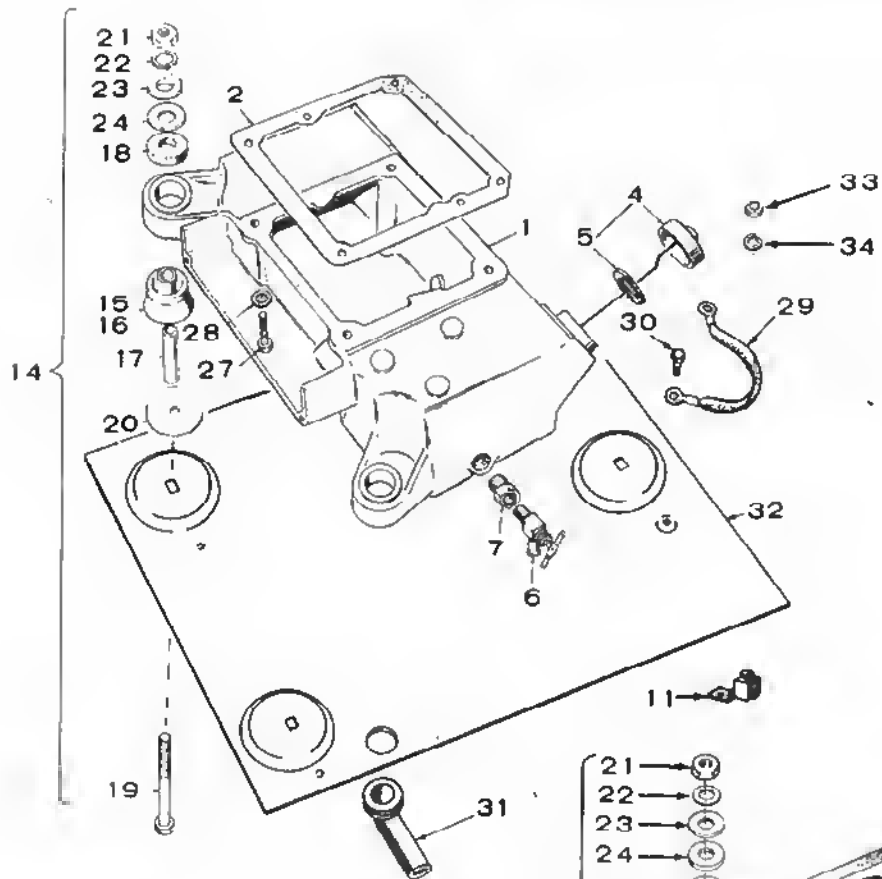
CYLINDER BLOCK

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	110-2340	1	Block Assembly, Cylinder (Includes Parts Marked ')
2	123-0954	1	Cap and Valve, Breather
3	123-0952	1	'Tube, Breather
4	BAFFLE, BREATHER		
	123-0865	1	Spec J
	123-1417	1	*Begin Spec K
5	110-1624	2	Cover, Valve
6	110-1720	2	Gasket, Valve Cover Mounting
7	517-0048	1	*Plug, Expansion
8	520-0736	5	'Stud, Bearing Plate Mounting
9	110-1731	2	Gasket, Cylinder Head Mounting
10	HEAD, CYLINDER		
			Spec J through N
	110-1912	1	Right Side
	110-1913	1	Left Side
			Begin Spec P
	110-2713	2	Left and Right Side
11	809-0035	1	Screw, Tapping - Round Head (#8 x 3/4" lg)
12	BEARING, CRANKSHAFT REAR		
	101-0450	1	*Standard
	101-0450-02	1	.002" Undersize
	101-0450-10	1	.010" Undersize
	101-0450-20	1	.020" Undersize
	101-0450-30	1	.030" Undersize
13	104-0575	2	*Washer, Thrust - Crankshaft Bearing
14	101-0415	1	'Gasket, Bearing Plate
15	101-0439	1	'Plate, Bearing - Rear
16	101-0405	2	'Bearing, Camshaft
17	509-0041	1	Seal, Oil - Crankshaft
18	516-0072	4	'Pin, Bearing Stop
19	104-0091	5	'Nut, Hex (3/8-24)
20	526-0063	2	Washer, Flat (Copper) - (17/64" ID x 7/16" OD x 1/32" Thk)
21	120-0680	1	'Tube, Oil - Crankcase
22	VALVE INTAKE		
	110-1718	2	Begin Spec K
	110-1974	2	Spec J
23	110-1719	2	Valve, Exhaust
24	INSERT, VALVE SEAT — EXHAUST		
	110-1716	2	'Standard
	110-1716-02	2	.002" Oversize
	110-1716-05	2	.005" Oversize
	110-1716-10	2	.010" Oversize
	110-1716-25	2	.025" Oversize

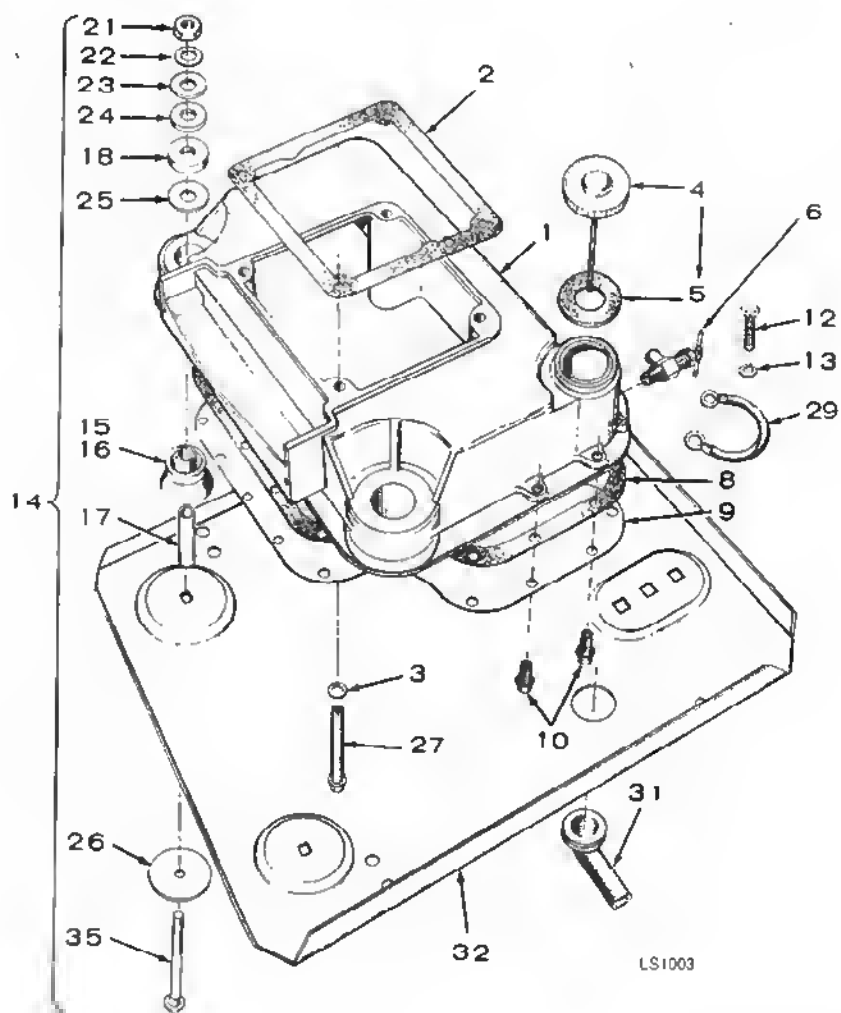
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
25	INSERT, VALVE SEAT — INTAKE		
	110-1933	2	'Standard
	110-1933-02	2	.002" Oversize
	110-1933-05	2	.005" Oversize
	110-1933-10	2	.010" Oversize
	110-1933-25	2	.025" Oversize
26	'GUIDE, VALVE		
	110-1939	2	Exhaust
	110-2281	2	Intake
27	110-0539	4	Spring, Valve
28	110-0639	8	Lock, Valve Spring
29	TAPPET, VALVE		
	115-0006	4	Standard
	115-0006-05	4	.005" Oversize
30	110-0904	2	Rotator, Valve
31	110-0893	2	Retainer, Valve Spring
32	800-0011	2	Screw, Cap - Hex Head (1/4-20 x 2" lg)
33	123-0951	1	Clamp, Loop - Breather Tube Cap
34	123-0958	2	Screen, Breather Tube
35	509-0117	1	Seal, "O" Ring - Breather Tube
36	110-0068	2	'Gasket, Valve Guide - Intake
37	STUD, CYLINDER HEAD MOUNTING		
	520-0717	8	3/8 x 1-7/8" lg
	520-0773	12	3/8 x 2-9/16" lg
38	BEARING, SLEEVE-FLANGED CRANKSHAFT		
	101-0432	1	*Standard
	101-0432-02	1	.002" Undersize
	101-0432-10	1	.010" Undersize
	101-0432-20	1	.020" Undersize
	101-0432-30	1	.030" Undersize
39	104-0776	As Req	Shim, Crankshaft Thrust
40	160-1190	1	Pointer, Timing
41	509-0090	2	Seal, Intake Valve
42	526-0250	20	Washer, Flat (.407" ID x 1" OD x 1/8" Thk)
43	526-0251	5	Washer, Flat (.406" ID x .688" OD x .1345" Thk)
44	526-0066	2	'Washer, Flat (Copper) - 25/64" ID x 9/16" OD x 1/16" Thk)
45	800-0046	2	*Screw, Cap - Hex Head (3/8-16 x 1/2" lg)
46	821-0010	1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2" lg)
47	104-0091	20	Nut, Hex (3/8-24)
48	TUBE, BREATHER		
	503-0761	1	Spec J
	503-0857	1	Begin Spec K
49	CLAMP, BREATHER TUBE		
	503-0760	2	Spec J
	503-0770	2	Begin Spec K

* - Parts Included in 110-2340 Cylinder Block Assembly.

OIL BASE & MOUNTING HARDWARE



LS1031



LS1003

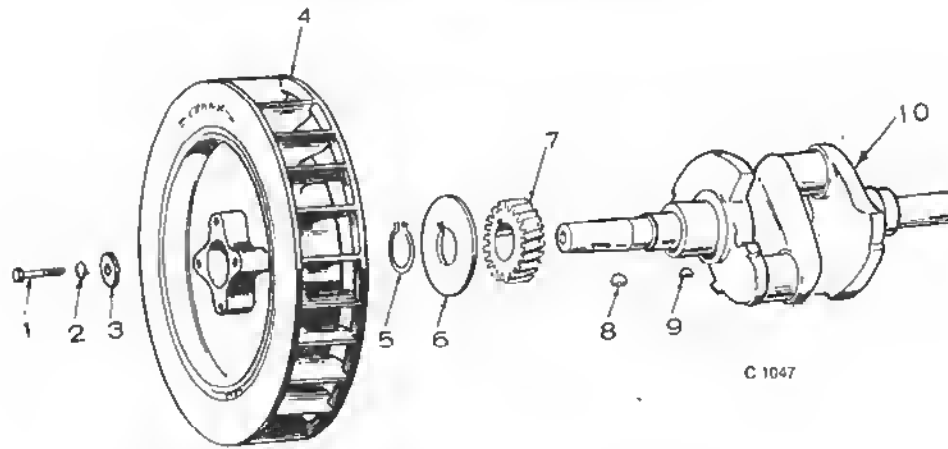
OIL BASE & MOUNTING HARDWARE

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BASE, OIL			21	#NUT, HEX (7/16" - 14)		
	102-0801	1	Spec J and K		862-0004	3	Spec J and K
	102-0957	1	Begin Spec M (Includes Parts Marked *)				Begin Spec M
2	102-0693	1	*Gasket, Oil Base		862-0004	2	Engine End
3	526-0013	4	Washer, Flat (25/64" ID x 1" OD x 1/16")		882-0004	1	Generator End (Left Side)
4	CAP AND INDICATOR OIL FILL				862-0004	1	Generator End (Right Side)
	123-0489	1	Spec J and K	22	#WASHER, LOCK - EIT (7/16")	3	Spec J and K
	123-1400	1	Begin Spec M				Begin Spec M
5	123-0191	1	Gasket, Oil Fill Cap		856-0012	2	Engine End
6	504-0092	1	Valve, Oil Drain		856-0012	1	Generator End (Left Side)
7	505-0019	1	Reducer, Pipe (1/2" x 3/8") - Spec J and K		856-0012	1	Generator End (Right Side)
8	102-0953	1	*Gasket, Oil Pan Mounting - Begin Spec M	23	#WASHER, FLAT (29/64" ID x 1-1/2" OD x 1/8")	3	Spec J and K
9	102-0889	1	*Pan, Oil Base - Begin Spec M				Begin Spec M
10	821-0018	20	*Screw, Cap - HWH (1/4-20 x 5/8") - Begin Spec M		526-0014	2	Engine End
11	332-0142	1	Terminal, Solderless - Ground		526-0014	1	Generator End (Left Side)
12	800-0047	1	Screw, Cap - Hex Head (3/81-6 x 5/8") - Begin Spec M		526-0014	1	Generator End (Right Side)
13	856-0010	1	Washer, Lock - EIT (3/8") - Begin Spec M	24	#WASHER, FLAT (5/8" ID x 1-1/2" OD x 1/16")	6	Spec J and K
14	PACKAGE, HARDWARE MOUNTING (Includes Parts Marked #)						Begin Spec M
	402-0435	1	Spec J and K		526-0198	4	Engine End
			Begin Spec M		526-0198	2	Generator End (Left Side)
	402-0477	1	Engine End		526-0198	1	Generator End (Right Side)
	402-0478	1	Generator End (Left Side)	25	#WASHER, FLAT	1	Generator End (Left Side) - Begin Spec M
	402-0480	1	Generator End (Right Side)		526-0286	1	Generator End (Right Side) - Begin Spec M
15	#CUSHION, VIBRATION - ENGINE END			26	856-0016	1	#Washer, Lock - EIT (5/8") - Right Side Generator End - Begin Spec M
	402-0283	2	Spec J and K	27	SCREW, CAP - HEX HEAD		
	402-0283	2	Begin Spec M		800-0051	4	3/8-16 x 1-1/4" - Spec J and K
16	#CUSHION, VIBRATION - GENERATOR END				800-0064	4	3/8-16 x 4-1/2" - Begin Spec M
	402-0284	1	Spec J and K	28	850-0050	4	Washer, Lock - Spring (3/8")
			Begin Spec M	29	STRAP, GROUND		
	402-0283	1	Left Side		337-0049	1	Spec J and K
	402-0283	1	Right Side		337-0418	1	Begin Spec M
17	#SPACER, SLEEVE			30	815-0350	1	Screw, Tapping - Slotted Head (#10-32 x 3/8")
	402-0290	3	Spec J and K				Hose, Oil Drain - Optional
			Begin Spec M	31	122-0345	1	
	402-0290	2	Engine End	32	PLATE, MOUNTING		
	402-0290	1	Generator End (Left Side)		403-1219	1	Spec J and K
	402-0290	1	Generator End (Right Side)		403-1484	1	Begin Spec M
18	#SNUBBER			33	862-0001	1	Nut, Hex (1/4-20) - Spec J and K
	402-0282	3	Spec J and K				Washer, Lock - EIT (5/16") - Spec J and K
			Begin Spec M	34	856-0008	1	
	402-0282	2	Engine End	35	#BOLT, CARRIAGE (7/16-14 x 3-1/2") - Begin Spec M		
	402-0282	1	Generator End (Left Side)		816-0206	2	Engine End
	402-0282	1	Generator End (Right Side)		816-0206	1	Generator End (Left Side)
19	800-0082	3	#Screw Cap - Hex Head (7/16-14 x 3-3/4") - Spec J and K		816-0206	1	Generator End (Right Side)
20	526-0195	3	#Washer, Flat (29/64" ID x 3-1/4" OD x 1/8") - Spec J and K				

* - Parts Included in 102-0957 Oil Base

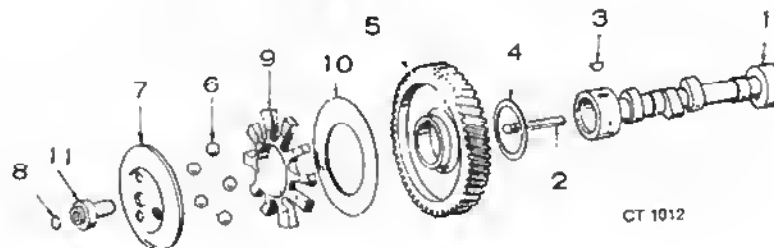
- Parts Included in Hardware Mounting Package

CRANKSHAFT AND FLYWHEEL



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head (7/16-14 x 4" lg)
2	850-0055	1	Washer, Lock - Spring (7/16")
3	526-0262	1	Washer, Flat (15/32" ID x 1-1/4" OD x 1/4" Thk)
4	134-3333	1	Flywheel
5	518-0014	1	Ring, Retaining
6	104-0043	1	Washer, Gear
7	104-0032	1	Gear, Crankshaft
8	515-0227	1	Key, Key
9	515-0001	1	Key, Woodruff
10	104-1314	1	Crankshaft

CAMSHAFT

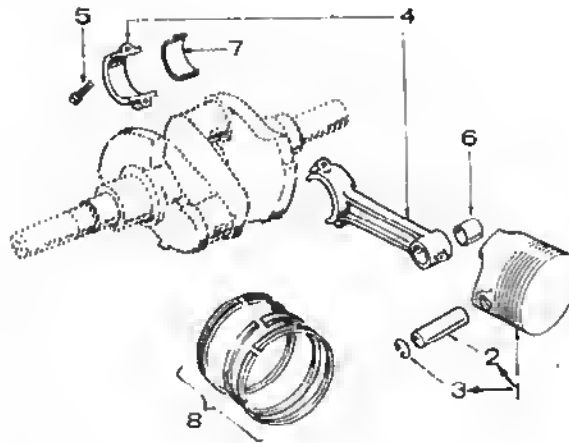


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	105-0396	1	Camshaft (Includes Center Pin)
2	150-0075	1	Pin, Camshaft
3	515-0001	1	Key, Camshaft Gear
4	105-0541	1	Washer, Thrust
5	105-0332	1	Gear Assembly, Camshaft (Includes Parts Marked *)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	510-0015	10	Ball, Fly - Governor
7	150-1520	1	Cup, Governor
8	150-0078	1	Ring, Retaining
9	150-1257	1	Spacer, Flyball
10	150-0077	1	Plate, Flyball
11	150-1519	1	Hub, Governor Cup

* - Parts Included in the 105-0332 Camshaft Gear Assembly.

PISTON AND ROD

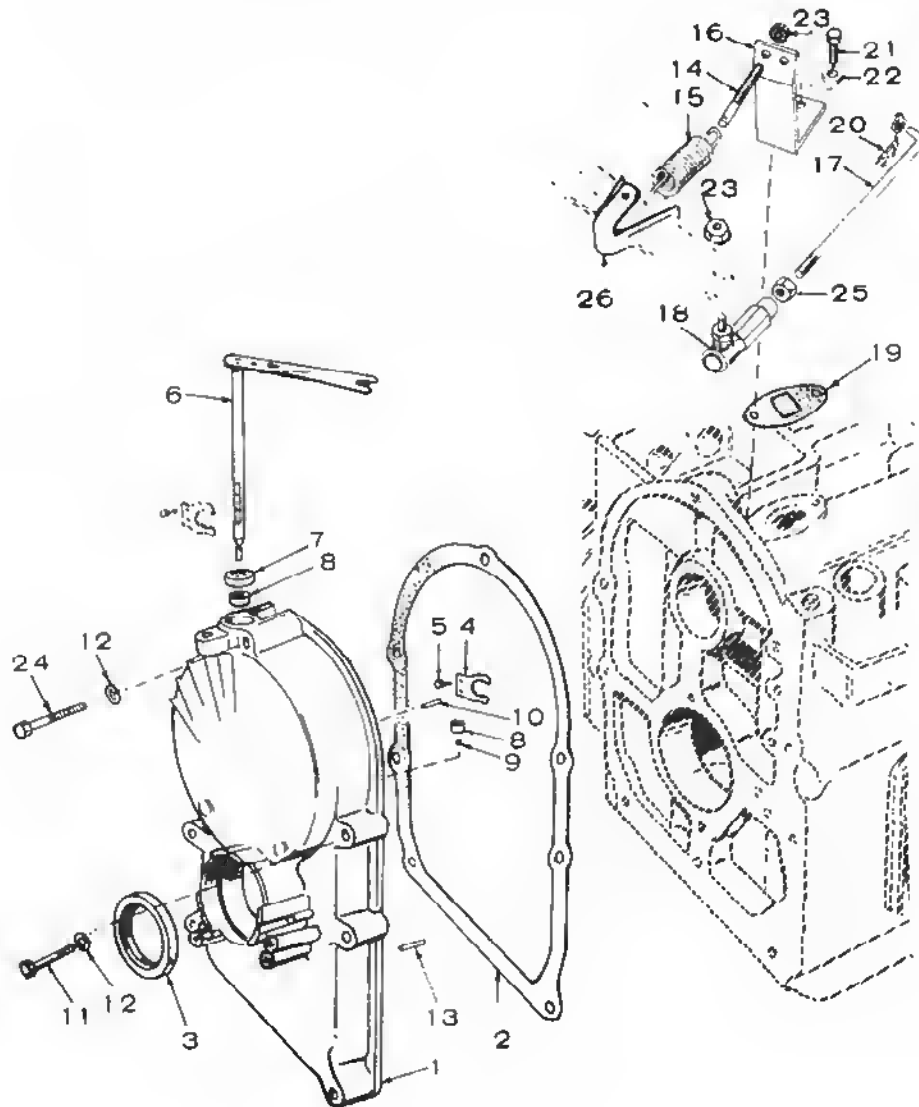


CT1013

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PISTON AND PIN (Includes Retaining Rings)		
			Spec J through N
	112-0180	2	Standard
	112-0180-05	2	.005" Oversize
	112-0180-10	2	.010" Oversize
	112-0180-20	2	.020" Oversize
	112-0180-30	2	.030" Oversize
	112-0180-40	2	.040" Oversize
			Begin Spec P
	112-0185	2	Standard
	112-0185-05	2	.005" Oversize
	112-0185-10	2	.010" Oversize
	112-0185-20	2	.020" Oversize
	112-0185-30	2	.030" Oversize
	112-0185-40	2	.040" Oversize
2	112-0112	2	Pin, Piston
3	518-0294	4	Ring, Retaining - Piston Pin
4	114-0203	2	Rod Assembly, Connecting
5	805-0010	4	Bolt, Place
6	114-0036	2	Bushing, Piston Pin

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	BEARING, HALF-CONNECTING ROD		
	114-0188	4	Standard
	114-0188-02	4	.002" Undersize
	114-0188-10	4	.010" Undersize
	114-0188-20	4	.020" Undersize
	114-0188-30	4	.030" Undersize
8	RING SET, PISTON		
			Spec J through N
	113-0165	2	Standard
	113-0165-05	2	.005" Oversize
	113-0165-10	2	.010" Oversize
	113-0165-20	2	.020" Oversize
	113-0165-30	2	.030" Oversize
	113-0165-40	2	.040" Oversize
			Begin Spec P
	113-0203	2	Standard
	113-0203-05	2	.005" Oversize
	113-0203-10	2	.010" Oversize
	113-0203-20	2	.020" Oversize
	113-0203-30	2	.030" Oversize
	113-0203-40	2	.040" Oversize

GEARCASE AND GOVERNOR

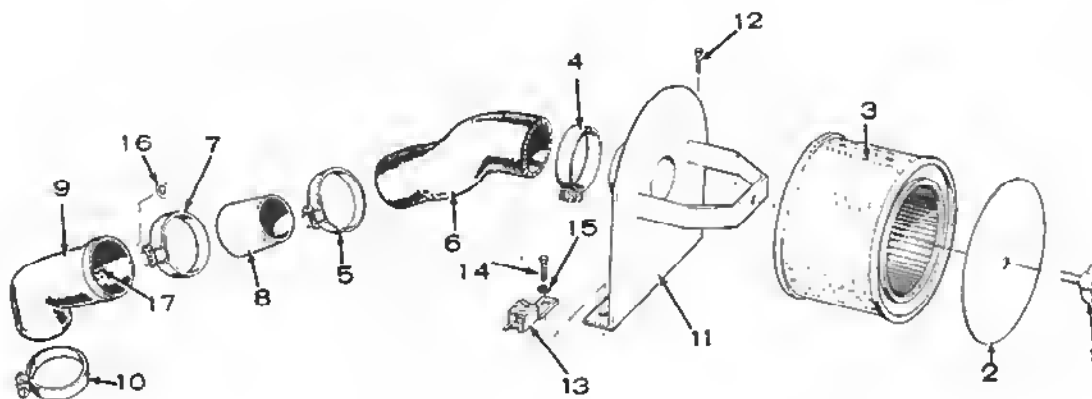


GEARCASE AND GOVERNOR

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	103-0667	1	Cover Assembly, Gear (Includes Parts Marked *)
2	103-0408	1	Gasket, Gearcase Mounting
3	509-0040	1	*Seal, Oil
4	150-1187	1	*Yoke, Governor
5	815-0046	2	*Screw, Machine - Pan Head (#8-32 x 3/8" lg)
6	150-1542	1	*Arm and Shaft Assembly, Governor
7	509-0008	1	*Seal, Oil
8	510-0013	2	*Bearing, Needle
9	510-0014	1	*Bearing, Ball - Governor Shaft
10	516-0130	1	*Pin, Governor Cup Stop
11	800-0032	4	Screw, Cap - Hex Head Gearcase Mounting (5/16-18 x 1-3/4" long)
12	526-0065	6	Washer, Flat (Copper) Gearcase Mounting (21/64" ID x 9/16" OD x 1/16" Thk)
13	516-0141	2	Pin, Gearcase Alignment
14	STUD, SPEED ADJUSTMENT		
	150-0796	1	Spec J
	150-0096	1	Begin Spec K
15	SPRING, GOVERNOR		
	150-0098	1	Spec J
	150-1612	1	Begin Spec K
16	150-1577	1	Bracket, Governor Mounting
17	ROD, GOVERNOR ARM TO CARBURETOR		
	150-1478	1	Spec J
	150-0629	1	Begin Spec K
18	150-0639	1	Ball, Joint
19	149-0003	1	Gasket, Governor Bracket Mounting
20	518-0004	1	Clip, Retaining - Rod End
21	800-0004	2	Screw, Cap - Hex Head Governor Bracket Mounting (1/4-20 x 5/8" long)
22	526-0063	2	Washer, Flat (Copper) Governor Bracket Mounting (17/64" ID x 7/16" OD 1/32" Thk)
23	870-0131	1	Nut, Self Locking (1/4-20)
24	800-0034	1	Screw, Cap - Hex Head Gearcase Mtg. (5/16-18 x 2-1/4" long)
25	870-0053	1	Nut, Hex (#10-32)
26	150-0678	1	*Clip, Sensitivity

* - Parts Included in 103-0667 Gearcase Assembly.

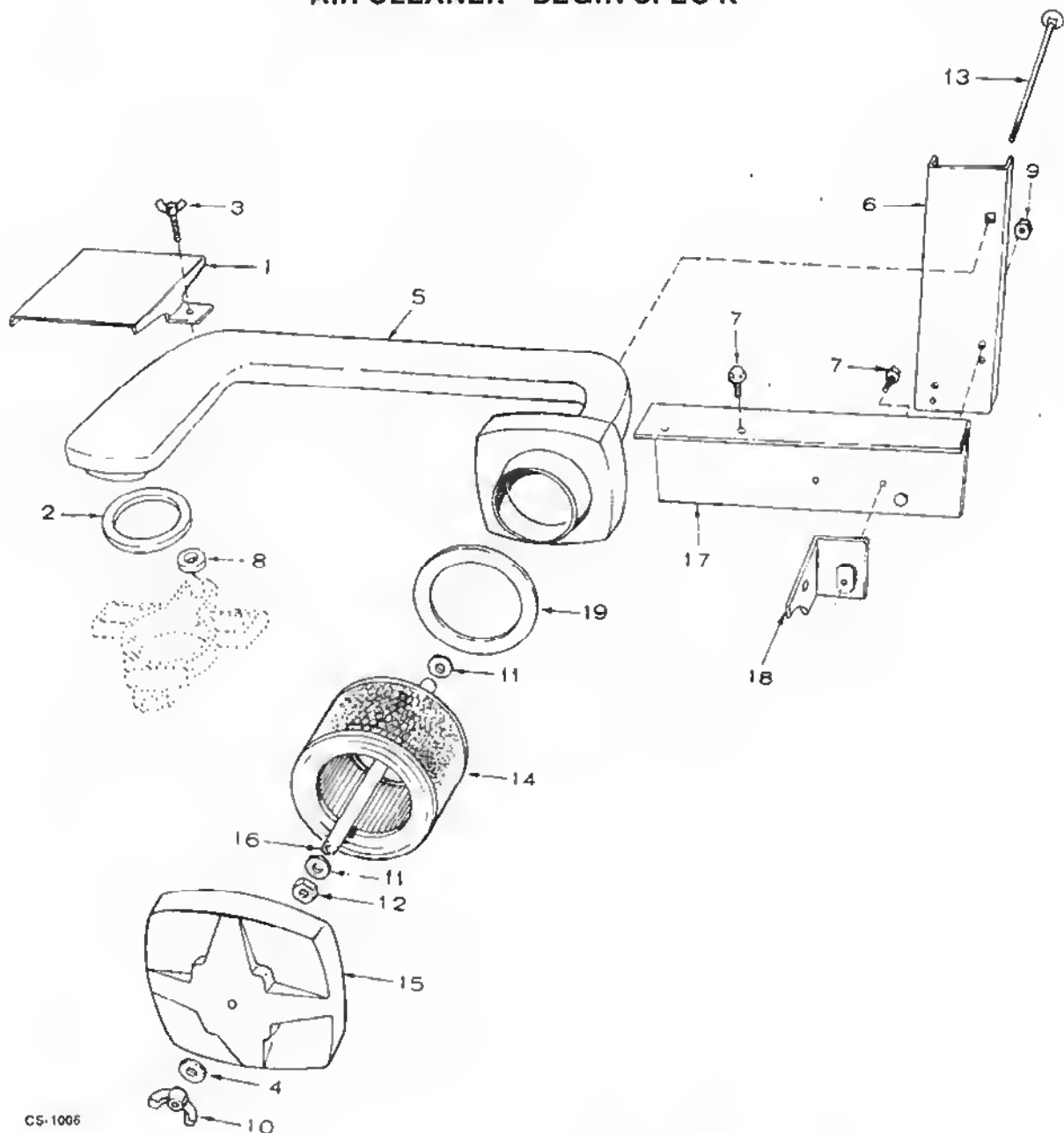
AIR CLEANER - SPEC J ONLY



M 1186

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	518-0056	1	Screw, Wing (#10-32 x 1/2" lg)
2	140-1153	1	Cover, Air Cleaner
3	140-0495	1	Cartridge, Air Cleaner
4	503-0004	1	Clamp, Hose - Air Cleaner
5	503-0311	1	Clamp, Hose - Air Cleaner
6	503-0802	1	Hose, Air Cleaner
7	503-0274	1	Clamp, Hose - Sleeve to Adapter Mounting
8	140-1240	1	Sleeve, Air Cleaner Hose
9	145-0504	1	Adapter, Carburetor Air Inlet
10	503-0107	1	Clamp, Air Intake Adapter Mounting
11	140-1173	1	Bracket, Air Cleaner
12	821-0009	1	Screw, Self Locking - Hex Head (1/4-20 x 3/8" lg)
13	332-0142	1	Terminal, Lug - Ground
14	821-0010	1	Screw, Self Locking - Hex Head (1/4-20 x 1/2" lg)
15	856-0006	1	Washer, Lock - External/Internal (1/4")
16	851-0011	1	Washer, Lock - Internal (1/2")
17	123-0733	1	Adapter, Tube - Breather Hose

AIR CLEANER - BEGIN SPEC K



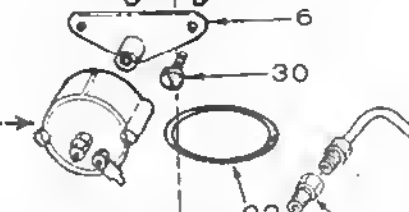
CS-1006

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	140-1520	1	Clamp, Air Duct
2	140-1502	1	Seal, Air Duct to Adapter
3	518-0390	2	Screw, Wing (1/4-20 x 3/4")
4	526-0021	1	Washer, Flat (17/64" ID x 3/4 OD x 1/16" Thk)
5	140-1503	1	Duct, Air Cleaner
6	140-1531	1	Bracket, Air Duct Support
7	821-0009	6	Screw, Cap - Hex Head Locking (1/4-20 x 3/8")
8	140-1521	1	Seal, Air Duct to Breather Port
9	870-0212	2	Nut, Hex - Locking 1/4-20

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	865-0019	1	Nut, Wing (1/4-20)
11	526-0158	2	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
12	870-0212	1	Nut, Hex - Locking (1/4-20)
13	816-0070	1	Bolt, Carriage (1/4-20 x 6-1/2")
14	140-0495	1	Element, Air Cleaner
15	140-1504	1	Cover, Air Cleaner
16	140-1522	1	Spacer, Air Intake
17	140-1529	1	Bracket, Air Intake Duct
18	140-1528	1	Brace, Air Intake Duct
19	140-1533	2	Seal, Air Cleaner Element

B1

940-0222 (APRIL 1981)



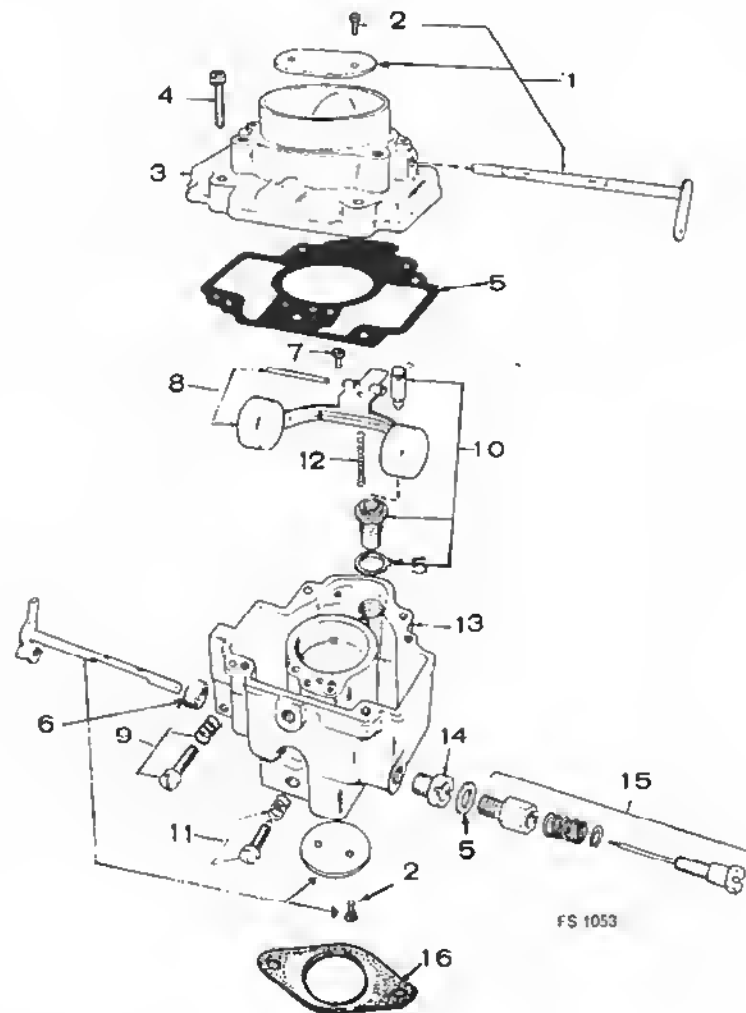
FUEL SYSTEM

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CARBURETOR (See Separate Group for Components)		
	146-0307	1	Spec J
	146-0308	1	Begin Spec K
2	154-0733	1	Gasket, Carburetor Mounting
3	MANIFOLD, INTAKE		
	154-1861	1	Spec J
	154-1539	1	Begin Spec K
4	154-1483	2	Gasket, Intake Manifold Mounting
5	140-1492	1	Adapter, Air Duct - Begin Spec K
6	ADAPTER, CHOKE		
	153-0489	1	Spec J
	153-0499	1	Begin Spec K
7	153-0058	1	Housing, Choke
8	153-0017	1	Element, Choke
9	153-0114	1	Cover, Choke
10	332-0527	1	Terminal, Lug
11	PUMP, FUEL - ELECTRICAL (See Separate Group for Components)		
	149-1553	1	Kit, Replacement - Spec J (Includes Parts Marked *)
	149-1541	1	*Begin Spec K
12	LINE, FUEL PUMP TO CARBURETOR		
	149-1417	1	Spec J
	149-1531	1	Begin Spec K
13	518-0350	1	Clamp, Loop - Fuel Line Insulated
14	502-0002	1	*Elbow, Inverted Male
15	502-0196	1	*Elbow, Street 90° - Spec K
16	502-0395	1	Connector, Hose - Spec K
17	502-0003	1	Connector, Inverted Male
18	502-0082	1	Nipple, Pipe - Spec J Only
19	307-1257	1	Valve, Solenoid - Spec J Only
20	332-1506	1	*Connector, Fuel Pump Lead - Begin Spec K
21	332-0529	1	Terminal, Fuel Pump Lead - Begin Spec K

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
22	509-0145	1	Seal, O-Ring - Begin Spec K
23	SCREW, CAP - HEX HEAD		
	800-0538	4	3/8-16 x 1-1/2" - Spec J
	800-0058	4	3/8-16 x 3" - Begin Spec K
24	800-0050	4	Washer, Lock - Spring (3/8")
25	SCREW, CAP - HEX HEAD		
	800-0036	2	5/16-18 x 2-3/4" - Spec J
	800-0035	2	5/16-18 x 2-1/2" - Begin Spec K
26	850-0045	2	Washer, Lock - Spring (5/16")
27	SCREW, CAP - HWH		
	821-0009	2	1/4-20 x 3/8" - Spec J
	821-0008	2	1/4-20 x 5/16" - Begin Spec K
28	862-0015	1	Nut, Hex (5/16-18)
29	804-0017	3	Screw, Cap - Socket Head (#10-32 x 1/2")
30	815-0359	2	Screw, Tapping - Hex with ET (#10-32 x 7/8")
31	815-0285	2	Screw, Machine - Round Head with ET (#8-32 x 5/16")
32	526-0062	2	Washer, Flat - Brass (.02" ID x 1/2" OD x 1/16")
33	815-0110	1	Screw, Machine - Fillister Head (#10-32 x 7/8")
34	850-0030	1	Washer, Lock - Spring (#10)
35	526-0030	4	Washer, Flat (13/32" ID x 7/8" OD x 1/8")
36	526-0022	1	Washer, Flat (21/64" ID x 9/16" OD x 1/16")
37	502-0313	1	*Elbow, Adapter (90°) - Begin Spec M

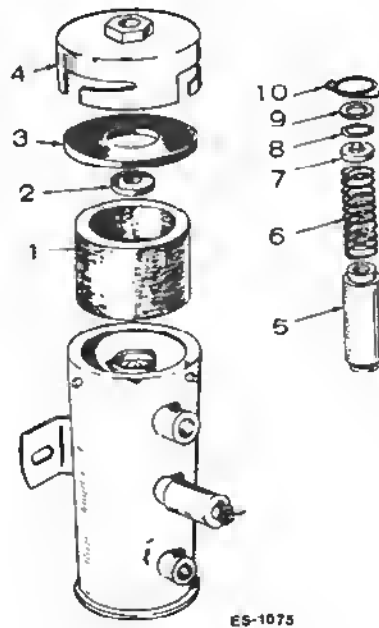
* - Parts Included in the 149-1553 Fuel Pump Replacement Kit.

CARBURETOR PARTS (ADJUSTABLE MAIN JET)



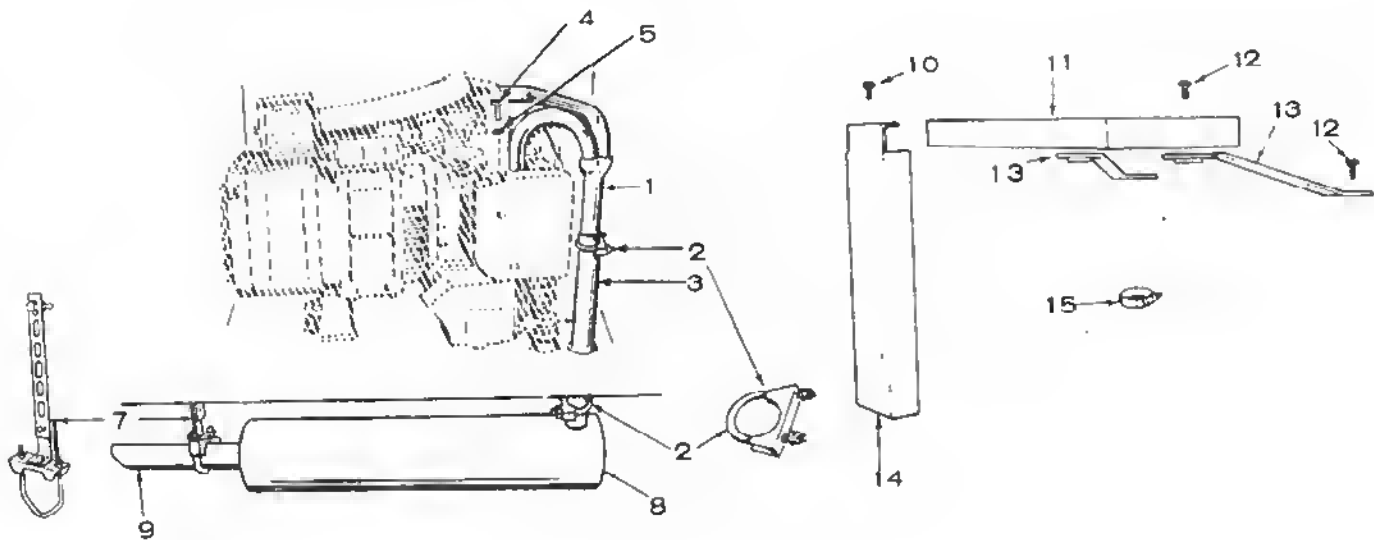
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
CARBURETOR, COMPLETE (Includes Mounting Gasket)				8	146-0262	1	Float Package
	146-0307	1	Spec J	9	146-0261	1	Idle Speed Adjusting Screw Package
	146-0308	1	Begin Spec K	10	146-0289	1	Valve and Seat Package
1	CHOKE SHAFT PACKAGE			11	146-0209	1	Idle Needle Package
	146-0264	1	Spec J	12	146-0208	1	Spring, Buoyancy
	146-0265	1	Begin Spec K	13		1	Body (Not Sold Separately)
2	146-0142	4	Screw, Valve Mounting	14	JET, POWER		
3		1	Intake, Air (Not Sold Separately)		146-0238	1	Spec J
4	146-0247	4	Screw, Body to Intake		146-0243	1	Begin Spec M
5	146-0220	1	Kit, Gasket	15	146-0248	1	Power Needle Package
6	THROTTLE SHAFT PACKAGE			16	154-0733	1	Gasket, Carburetor Mounting
	146-0268	1	Spec J		146-0290	1	Kit, Repair
	146-0267	1	Begin Spec M				
7	146-0222	1	Screw, Lever Pin				

FUEL PUMP (ELECTRIC) - BEGIN SPEC K



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-1541	1	Pump, Fuel
1	149-1445	1	Filter
2	149-1447	1	Magnet
3	149-1446	1	Gasket, Cover
4	149-1453	1	Cover
5	149-1452	1	Plunger
6	149-0767	1	Spring, Plunger Return
7	149-1451	1	Spring Cup & Valve
8	149-1450	1	Gasket, Spring Cup
9	149-1449	1	Washer, Cup Gasket
10	149-1448	1	Retainer, Cup & Plunger

EXHAUST SYSTEM - SPEC J

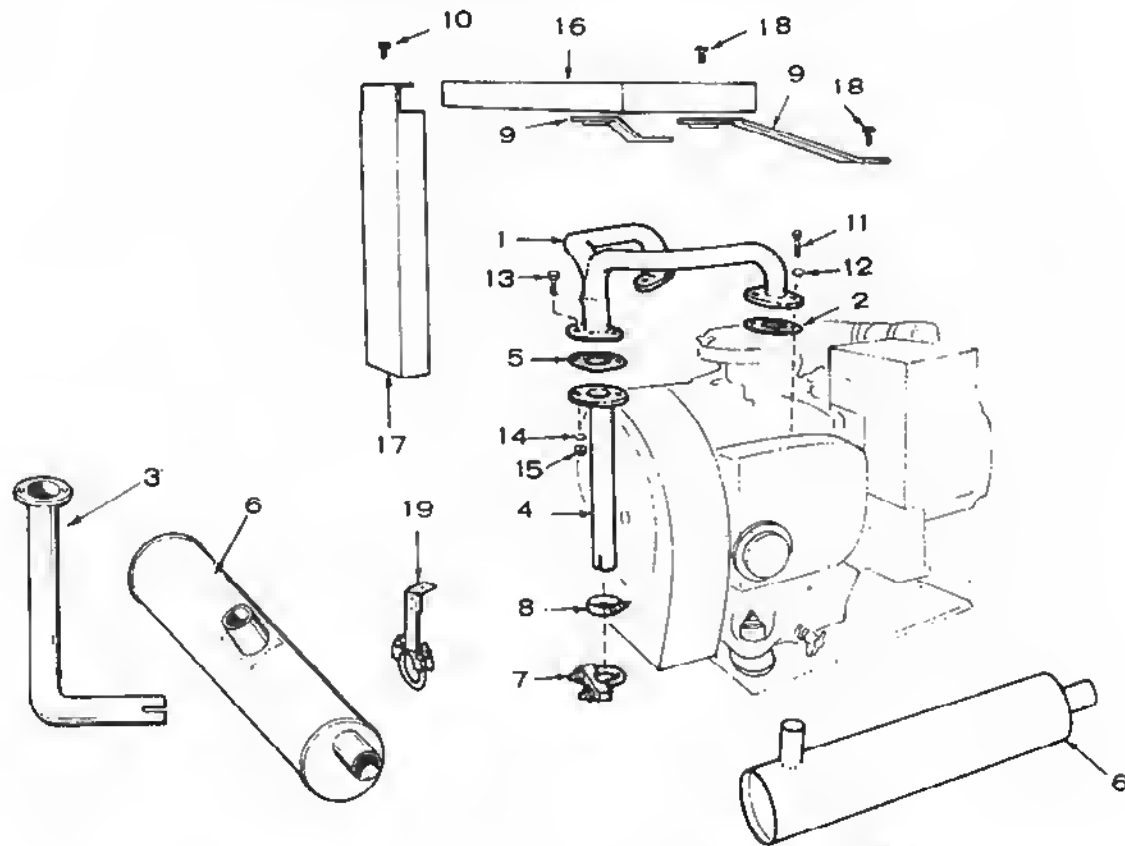


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	154-1864	1	Manifold, Exhaust
2	155-1239	2	Clamp, Muffler - Optional
3	154-1578	1	Tube, Exhaust - Optional
4	800-0512	4	Screw, Cap - Hex Head (5/16-18 x 1")
5	850-0045	4	Washer, Lock-Spring (5/16")
6	154-1482	2	Gasket, Exhaust Manifold
7	155-1234	1	Bracket, Muffler Hanger - Optional
8	155-1222	1	Muffler, Exhaust - Optional
9	155-1235	1	Tube, Muffler Exhaust - Optional

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	800-0034	2	*Screw Cap - Hex Head (5/16-18 x 3/4") - Optional
11	154-1888	1	*Shield, Heat - Exhaust - Optional
12	821-0010	3	*Screw, Cap - Hex Head (1/4-20 x 1/2") - Optional
13	154-1887	2	*Bracket, Heat Shield Mounting - Optional
14	154-1915	1	*Shield, Heat - Optional
15	503-0107	1	*Clamp, Shield to Exhaust Tube - Optional

* - Parts are for UL Listed and CSA Certified Sets.

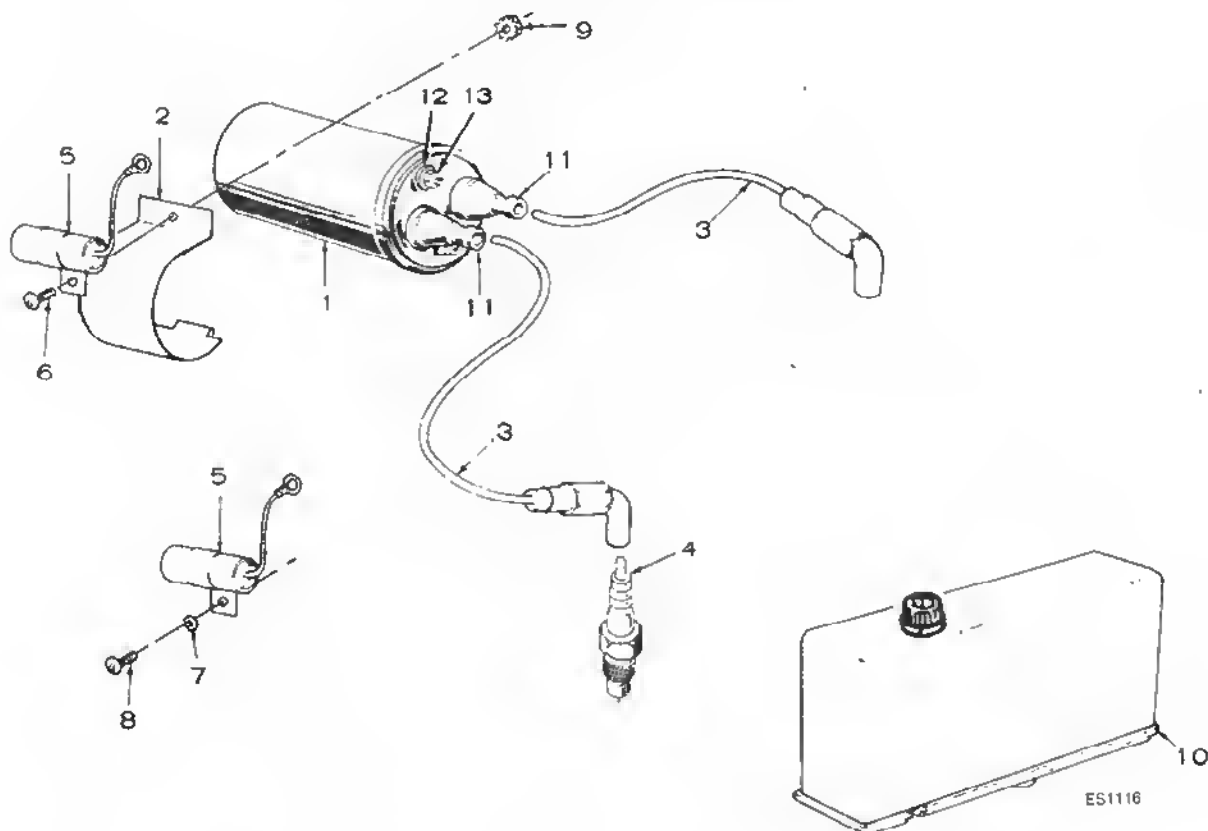
**EXHAUST SYSTEM - BEGIN SPEC K
(UL LISTED AND CSA CERTIFIED)**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	154-1967	1	Manifold, Exhaust
2	154-1482	2	Gasket, Exhaust Manifold Mounting
3	154-2226	1	Tube, Exhaust (90° Bend) - Begin Spec M - Optional
4	TUBE, EXHAUST - OPTIONAL		
	154-1917	1	Spec K
	154-2167	1	Begin Spec M
5	154-2061	1	Gasket, Exhaust Tube - Optional
6	MUFFLER, EXHAUST - OPTIONAL		
	155-1258	1	End Inlet
	155-1910	1	Center Inlet
7	155-1239	1	Clamp, Muffler - Optional
8	503-0107	1	Clamp, Shield to Exhaust Tube - Optional
9	BRACKET, HEAT SHIELD MOUNTING - OPTIONAL		
	154-1968	1	Right Side
	154-1069	1	Left Side

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 3/4") - Optional
11	800-0512	4	Screw, Cap - Hex Head (5/16-18 x 1")
12	850-0045	4	Washer, Lock-Spring (5/16")
13	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4") - Optional
14	850-0045	2	Washer, Lock-Spring (5/16") - Optional
15	862-0015	2	Nut, Hex (5/16-18) - Optional
16	154-1972	1	Shield, Heat (Manifold) - Optional
17	SHIELD, HEAT (EXHAUST TUBE) - OPTIONAL		
	154-1980	1	Spec K
	154-2146	1	Begin Spec M
18	821-0010	3	Screw, Cap - Hex Head (1/4-20 x 1/2") - Optional
19	155-1234	1	Bracket, Muffler Hanger - Optional

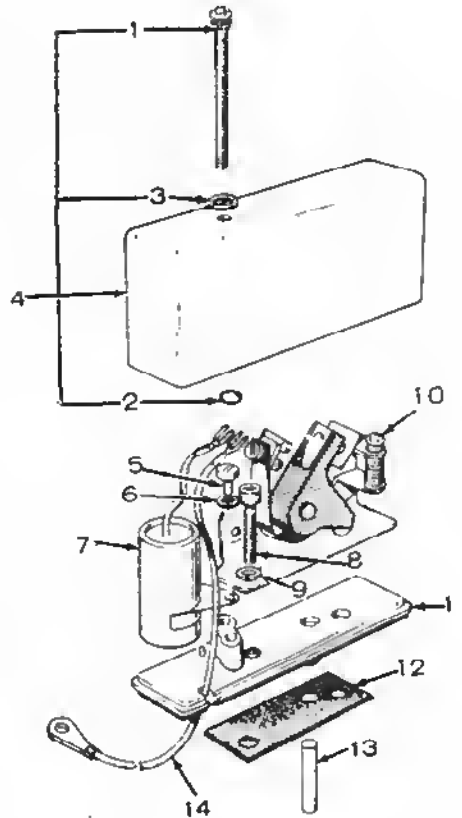
IGNITION SYSTEM



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	166-0643	1	Coil, Ignition
2	166-0588	1	Clamp, Ignition Coil Mounting
3	LEAD, SPARK PLUG ELECTRICAL		
	167-1595	1	14-1/2" lg - Spec J
	167-1596	1	7-1/2" lg - Spec J
	167-1596	2	7-1/2"- Begin Spec K
4	PLUG, SPARK		
	167-0247	2	Spec J
	167-0292	2	Spec K through Spec N
	167-0291	2	Begin Spec P
5	312-0017	1	Condenser, Ignition (.5 MFD)
6	821-0004	1	Screw, Cap - HWH (#10-32 x 5/16")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	856-0003	1	Washer, Lock - External/Internal Condenser Mounting (#10) Spec J
8	815-0350	1	Screw, Tapping - Hex Washer Head - Condenser Mtg. (#10 32 x 3/8" lg) - Spec J
9	870-0131	1	Nut, Hex - Coil Bracket Mtg. and Condenser (#10-32)
10	160-1210	1	Box Assembly, Breaker - Complete (See Separate Group for Components)
11	160 0558	2	Nipple, Spark Plug Cable
12	850-2005	1	Washer, Flat (Special)
13	166-0554	1	Nut, Head (Special)

BREAKER BOX ASSEMBLY

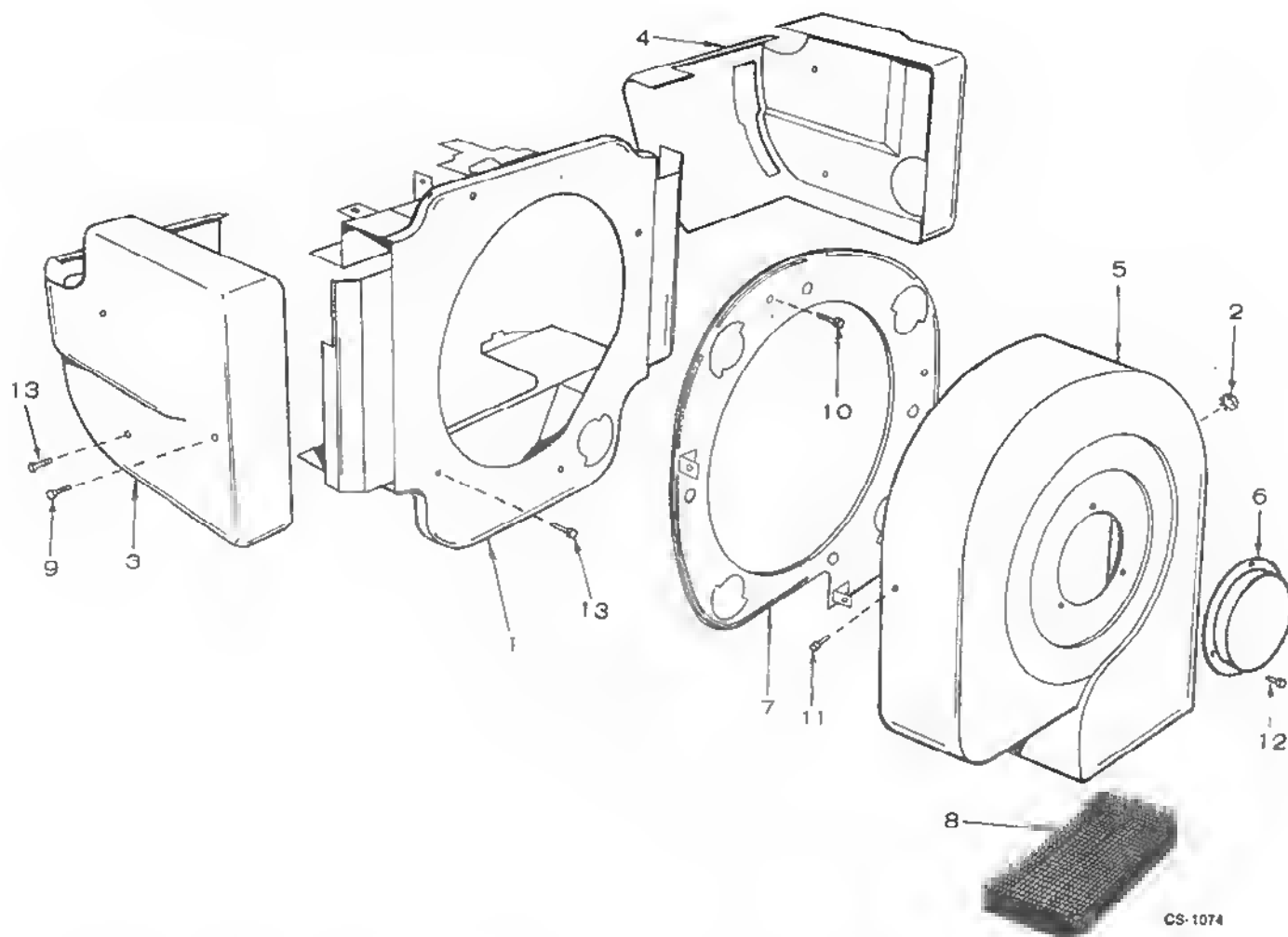


ES-1057

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	160-1210	1	Box, Breaker (Includes Parts Marked ')	8	802-0034	2	*Screw, Cap (1/4-20 x 3/4") - Socket Head
1	802-0022	1	'Screw, Cap - Hex Socket (#10-24 x 1-1/2")	9	850-0040	2	'Washer, Lock (1/4")
2	509-0065	1	'Retainer ("O" Ring)	10	160-1183	1	'Point Set, Breaker
3	526-0008	1	'Washer, Flat (13/64" ID x 7/16" OD x 1/32" Thk)	11	160-1219	1	'Base, Breaker
4	160-1285	1	'Cover, Breaker Box	12	160-1150	1	*Gasket, Breaker Box
5	815-0358	1	*Screw, Cap (#8-32 x 5/16") - Slotted	13	160-1151	1	Plunger, Breaker Points
6	850-0025	1	*Washer, Lock (#8)	14	336-2378	1	Lead, Breaker Box to Coil
7	312-0196	1	*Condenser		160-1213		Tune Up Kit (Includes Points and Condenser)

' - Parts Included in 160-1210 Breaker Box.

AIR HOUSING



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	HOUSING, BLOWER		
	134-3312	1	Spec J through N
	134-4095	1	Begin Spec P
2	517-0021	1	Plug, Button
3	HOUSING, CYLINDER AIR (LEFT SIDE)		
	134-2755	1	Spec J through N
	134-3617	1	Begin Spec P
4	HOUSING, CYLINDER AIR (RIGHT SIDE)		
	134-2752	1	Spec J through N
	134-3618	1	Begin Spec P
5	134-2761	1	Scroll, Air (Includes Guard)
6	134-3119	1	Cover, Scroll
7	134-2747	1	Backplate, Scroll
8	134-2763	1	Guard, Scroll

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	821-0010	2	Screw, Self-Locking - Hex Head - Cylinder Air Housing Mounting (1/4-20 x 1/2" lg)
10	821-0010	4	Screw, Self-Locking - Hex Head - Scroll Backplate Mounting (1/4-20 x 1/2" lg)
11	821-0010	5	Screw, Cap - HWH (1/4-20 x 3/8")
12	821-0009	3	Screw, Self-Locking - Hex Head - Scroll Cover Mounting (1/4-20 x 3/8" lg)
13	815-0261	6	Screw, Tapping - Hex Head - Cylinder Air Housing Mounting (1/4-20 x 7/16" lg)